dentula is simply Thomsoni with the callus-folds situated it the anterior area of the back of the shell more strongly developed.

In a series of eo-types from the collection of the late Mr. (. E. Bedhlome there are some specimens entirely wilhout these folds, and a selected series seems to demonstrate that these folds are only fully developed in the last stare of growth.

It is significant that in the description of $P$. bidentata there was no comparison made with the obvously closely allisel 1'. Thomsomi.
XVIII.-Description of a new Cypminoid Fish, Acheiloglathes signifer, from Korea, with "Synopsis of all the knoun lhodenar. Liy L. S. Liehg (st. Petersburg).

## Acheilognathus signifer.

Clusely allied to A. cyanowigma, Jordan \& Fowler, 190.3, from lapan (Lake Liwa), differing chietly in coloration and lenerer barbels.

No dark shoulder-spot above gill-opening, no longitu linal band on body, ncither on tail. Dorsal deep brown, with a liroad marginal whitish land. Anal with several durlier lungitudinal cross-bars. Ventral blackish.

$$
\text { D. II S. A. II S. L. I. } 36{ }_{4}^{6} \text {. }
$$

'Tecth 5-5, not serrated. No spines in dorsal and anal. Barbels present, rather long, somewhat more than half the length of the eye, reaching to the vertical from the anterior third of eye. Month small, subinferior. Maxillary reaching to the nostrils. Depth of body $2 \frac{3}{4}$ in its length (without caudal), length of head 4 ; diameter of eye $\frac{1}{3}$ length of head, slightly less than interorbital space, equal to snont, $1 \frac{1}{5}$ in postorbital space. Caudal peduncle $31 \frac{1}{2}$ in body, twice as long as decp, its depth 25 in that of body. Origin of dorsal somewhat Lehind the root of ventral:, midway between end of snout an l reot of caudal ; its end opposite to the thited branched ray of anal. Base of doraal $5 \frac{1}{4}$ in body, height 6 . Upper margin of dorsal straight. Origin of amal below the patemen dorsal rays; its base $61_{11}^{7}$ in body; its height $6 \frac{1}{4}$. I'cecurals not reaching ventrals, $5 \frac{2}{9}$ in body; ventrals 6 , reachin ; orimin of anal. Lateral line slightly decurved ; 6 scales betwen
literal line and mithle of belly: Ams milway between wrigin of the ventrals and anal.

A single alult male (with two semicircular exeresenes on shonit, metsminer about is mm . ( 47 withont cambal),
 Type efremen N. 10? 1.5 in the Zanol. Mus. of the Acad. of -ciences al st. letersburg.

The following is a symopsis of all the species known to me n' the gromp litmdente *:

## 1. Rimonries, Arasciz, 1s.35.

Laternl line incomplete. No prine in dursal and amal. Pharyneal t eth is-i, not serrated. Nore than 7 branched rays in amal.
(1. No barbel-; D. III ! 10, A. III 8 10,

1. 1.31 10.
2. Thisd suburbital not more than half the
l. Iuth of the eye. (Cemtral Europe,
N.IV. and \&i. lius-ia. Macedonia,
Anatolia, Caucanus, basin of Amur,
Manchmia t.)
lih. sericeus (I'allas), $176(=$ Rh. amarus, Bloch, 1782).
Lh. 'Jhird suborbital more than half
the lenrth of the eve. (Southern
(lhina.) ......................... lih. sinensis, Criinther, 1868.
(wn. Barbele prosent: D. III \&, 1. III ?,

## J. J'aramulifes, gen, nov.

latural line incomplete. No spine in dorsal and anal. Pharyngeal



## 

Lateral line complete. I'haryneral tecth $\bar{\pi}$-i, mot serrated. Jarbels prisent er abjecut. Fipe in dorsal and anal absent or present.
A. Farbels pre-ent. No efpine in dorsal and nal.
n. Shonldom with a more or less dititcet
 r2e:) relir ('aporta romyuta. Schl., and C'. gracilis, schl., to the group Thorleins ("twh onc-rowed"). Althourh Schlerel does not indicate hee duntition of then species, likerker (Atlas ichth. iii. 1863, p. 117 ;
 Stat- That the sthe ther-rourd, $1,3.5-5.3 .1$ ("dentes raptatorii") as: in Sarlhimer, whirh induced 1)s: (iiinther (Coat. Fijsh. vii. leliox, p. J26)


+ I sery remaskable in-tance of an interrupted di-tribution: not yet l.n wn froin sily ria.
$\ddagger$ caredy belonering to this genus.
dark shoulder－apot abore eill－ openin $r$ ．
b．Burbels short，about half the lensth of the eve；shonlder－spotand lateral band very distinct．I）．III 10， A．III 10．（Japan．）．．．．．．．．A．limbatus（Schlegel）， 181 f ．
b8．Barbele more than half the lingth of the eye：shoulder－spot and lateral band indi－tinet or absent．D．III S！， A．III 9．（Japan．）．．．．．．A．lanceolatus（N．hlegel），1～6か．
（at）．Shoulder without dark spot abore gill－opening．
c．Burbels short，not more than half the length of the eve．
d．A Innritudimal dark band：dorsal with several darker longitudinal cruss－bars；anal dark，with a broad maremal whitish band． Maxillary barbel very short． 1）．III - ，A．III $<$, 1．1． $3!!$ （Japan．）．．．．．．．．A．cyanastiyma，Jordan \＆Fowler， 1003.
d．l．No lonritudiual darls band； dorsal dark，with a broad mar－ ginal white band；anal with several darker longitudinal croos－ liars．D．II s，A．II $\kappa$, I．1． 36 ． Maxillary barbel about half the eve．（horea．）
cc．Barbels long，as long as eve．A longitudinal dark banl atoner the middle of tait ；lower half of dorsnl with a series of blackish dots； 1）．119．A．1［11－12，1．1．34．（For－ mosa．）．．．．．．．．．．．．．．．．．．．．A．himantegus，Giinther，186．．
1．1．Barbels present．Spine in dorsal and anal present．
e．1）．II 11，A．II ？，1．1．3R；depth $2 \frac{1}{2}$ in length of body，snout shorter thas pye．（Shanghai．）．．．．．．．．．．．．．A．Uarbatulus，Giunther， 1873.
re，1）．III 11－13，A．III 11，1．1．3；－2，
depth $21-21$ in length of bodr ；snout
as long as eye：a dark blue spot
above gill－opening．（Kiorea，Seoul．）
A．coreanus，Steindachner，Isw！．
A．A．Barbels absent＊＊
$f$ ．Iorsal and anal without spine．
D．II $14-1 \%$ ， 1 ．II It $1 \%, 1,1,35-33$ ．
（Japan，1．Biwa．）．．．．．．．．．．．．．．．．A．lonjipimais，Regan，190．5．
ff．Norsal and anal with spines．
1）．III I2－13，A．III 10，1．1．3．5－36．
（hasin of Amur，L．libanka or－［1）yb．），1siz．
1lamkn．）．A．chanknënsis（1）yowski）（ $=$ Devario chankiensis，
＊Achrilognothus masembrinum，Jordan \＆Leemann（l＇roc．Vis．N．
 to the Khodeine．


Lateral line complete. Pharyngeal teeth $5-5$, deeply serrated. No spine in dorsal nud amal.
a. Barlels (very minute) present: month inferior: 11. II 14, A. III 10, I. 1.37-38. Itead 4! in length of body, depth $2 \frac{1}{4}$, eye 4 in head. (Japan.) ….... $\overline{\text { P', rhombeus (Schlegel), } 1846 . ~}$
aa. Ňo harbels: mouth oblique.
b. D. II 10, A. 11 12, 1. 1. 35. Head 4 in length of body, depth 3, eye 3 in heac'. (China.) (berbis, Gthr.). 1'. imberbis (Günther), 1808 ( $=$ Achilognathus im-
bb. D. Ill 13-14, A. III 10-11, 1. I. 35.
llead 4 in length of body, depth $2 \frac{1}{2}$, ese $\frac{2 y}{3}$ in head. (Yaug-tse-kiang,
Tien-tsin.).... $\quad$. Bleckeri, n. n. ( $=$ P. imioerlhis, Bleeker, 1871, [non Achilognathus imberbis, Giinther*).

## V. Psecdoperilampus, Bleeker, 1863.

Lateral line incomplete. I'haryngeal teeth $5-5$, deeply serrated. No spine in dorsal and anal. No barbels,
a. D. III 10-11, A. III 10-11, 1. 1. 55-65.
(Japan.) …..................... P. typus, Bleeker, 1863.
aa. D. I1I 11-12. A. III 10-11, 1. 1. 33-34.
(Shanghai, Yang-tse-kiang.)
P. ocellatus, Kner, 1865-67.

## VI. Acanthorhodets, Bleeker, 1871.

Lateral line complete. Teeth deeply serrated. Spine in dorsal and anal present. Barbels present or absent.
a. Barbels present.
D. III 17-18, A. III 12-13, 1. 1. 35; head 5 in
length of body, depth $2 \frac{1}{2}$. (Yang-tse-
kiang.) .................... A. macropterus, Bleeker, 1871.
D. III 1i-18, A. III 13-14, 1. 1. 36-40; head
$4 \frac{1}{4}-4 \frac{1}{2}$ in length of body, depth $2-2 \frac{1}{8}$.
(Yang-tse-kiang; Shangliai.) ...... A. Giuchenoti, Bleeker, 1871.
D. III 17, A. III 13-14, 1. 1. $34 \frac{6}{5}$; head $4 \frac{2}{5}$ in
length of body, depth $2 \frac{1}{2}$. (China;
Swatow.) 1898.
D. III 15, A. III 11, 1. 1. 94 ; head 4 in length of body, depth 2. (Upper Tonkin.) A. tonkinensis, Vaillant, 1892.
aa. Barbels absent.
D. III 14-15, A. III 12-13, 1. 1. 30. (Yang-
tse-kianc.) …............... A. hypselonotus, Bleeker, 1871.
D. II 12-13, A. II 10-11, 1. 1. \%5. (Shanghai.).
A. atranalis, Güntber, 1873.
D. II 16-17, A. II 13-14, 1. 1. 35-36; second
suborbital twice as long as deep; dorsal

* Cf. Günther, Zonl. Record. 18i1, 1). 107.
and anal twice as long as high. (Shanr-

D. III. 16 13, A. II $1 \because-14,1.1 .3(6-3$.$) ; second$
suborbital about as lony az deep; dorsal
and anal less than twice as long as high.
(Lower Amur, Ussuri.) . ............ A. Asmussi (Dybowski), 18,2 [( = Devario Asmussi, Dyb.).
XIX.-Description of a neno Cyprinoid Fish, Paralenengobio notacanthus, from N. China. By L. S. Bera (St. Petersburg).


## Paraledcogobio, gen. nov.

Allied to Leucogobio, Günther, from which it differs in having the dorsal provided with a spine and inserted lehind ventrals.

Body compressed, deep; scales large, about 35 in lateral line; lateral line in the middle of body, anteriorly slightly decurved, posteriorly straight. D orsal short, with 7 branched rays and with a strong, but flexible at the top, spine, inserted a little behind origin of ventrals, nearer to end of snout than base of caudal. Anal short, with 6 branched rays, without spine, its origin beyond the end of dorsal, nearer to basc of ventrals than to caudal. Anns a little before origin of anal. Breast sealed. Belly not keeled. Mouth small, anterior: jaws of equal length; lower without tubercle, its elge somewhat trenchant, semilunar. Hind margin of maxillary reaching the vertical of the midulle between nostrils. Tip of snout about on the level of the lower margin of eye. Lips thin, the lower interrupted at the symphysis. A minnte barbel at the angle of month, equal to $\frac{1}{3}$ of the diameter of eye, not reaching the vertical of front margin of cye. Preorbital reaching the eje. Suborbitals long, narrow. Gill-membranes attached to isthnus below the hind margin of eye. Peritonemm silvery, with some black points. Pharyngeal teeth two-rowed, 2.4-5.3, compressed, subuncinate; upper teeth of the longer series conical.

Paraleucogobio notacanthus, sp.n.

$$
\text { D. II 7. A. III 6. Lin. lat. } 34 \frac{5}{3\}} 37 \text {. }
$$

Snout blunt: interorbital space convex. Back behind nape flattuned. Pectorals not reaching ventrals, ventrals not

